

## SECTION VI.—BIBLIOGRAPHY.

## RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

**Alvord, John W[atson] & Burdick, Charles B[saker].**

Relief from floods; the fundamentals of flood prevention, flood protection, and the means for determining proper remedies. New York. 1918. viii, 175 p. illus. fold. map. charts. tables. 24 cm.

**Blue Hill meteorological observatory.**

Observations and investigations made . . . in the year 1917 under the direction of Alexander McAdie . . . Cambridge, Mass. 1918. tables. 30 cm. (Annals of the Astronomical observatory of Harvard College . . . vol. 83, pt. 2. p. [65]-92.)

**Bouches-du-Rhône. Commission de météorologie.**

Bulletin annuel . . . Année 1916—35<sup>e</sup> année. Marseille. 1917. xii, 68, xxiv, p. map. charts (part. fold.) tables. 28½ cm.

**Cambridge university. Solar physics observatory.**

Fourth annual report of the director of the Solar physics observatory to the Solar physics committee, 1916, April 1—1917, March 31. [Cambridge. 1917.] cover-title. [6] p. 28½ cm.

Fifth annual report of the director . . . 1917, April 1—1918, March 31. Cambridge. 1918. [4] p. 28 cm.

**Cienfuegos. Observatorio del Colegio "Nra. Sra. de Montserrat."**

Anales. No. 7. Observaciones meteorológicas de 1917. Habana. 1918. 2 p. l., 7 p. tables. 34½ cm.

**Denmark. Meteorologiske institut.**

Magnetisk aarbog. Annuaire magnétique, 1916. Kjøbenhavn. 1918. 11 p. fold. charts. tables. 32½ cm. At head of title: Publikationer fra det Danske meteorologiske institut, ved C. Ryder, direktør. Aarbøger. In French.

**Foote, Paul D.**

Some characteristics of the Marvin pyrheliometer. Washington. 1918. p. 1., 605-634 p. plate. charts. 9 tables. diagrs. 26 cm. At head of title: Department of commerce. Scientific papers of the Bureau of Standards . . . No. 323.

**Great Britain. Meteorological office.**

The marine observer's handbook. Second edition . . . London. 1918. iv, 142 p. front. illus. plates. charts. tables (part. fold.) 24½ cm. M. O. 218. (2d edition.)

**Hongkong. Royal observatory.**

Report of the director . . . for the year 1917. Hongkong. 1918. cover-title. 14 p. incl. tables. 14½ cm.

**Howchin, Walter.**

Notes on the remarkable hailstorm near Adelaide, on May 12, 1917. cover-title. illus. plate. 21 cm. (Reprinted from Transactions of the Royal society of South Australia, vol. 41, 1917.)

**Hug, J.**

Die Grundwasservorkommnisse der Schweiz. Bern. 1918. xvi, 168 p. plates. 5 fold. maps. charts (part. fold.) tables. 31½ cm. At head of title: Schweizer. Department des Innern. Annalen der Schweizer. Landeshydrographie; herausgegeben unter der Leitung von Dr. Léon W. Collet, Direktor der Abteilung für Wasserwirtschaft. Band 3. "Planche 3 suivra après guerre."

**Mexico. Instituto geológico.**

La seismología en Mexico hasta 1917, por Manuel Muñoz Lumbier. Mexico. 1918. 2 p. l, 102, [3] p. plates (part. col.) maps. fold. tables. fold. diagrs. 29½ cm. At head of title: Secretaría de industria, comercio y trabajo. Departamento de estudios y exploraciones geológicas. Boletín num. 36.

**Miami conservancy district, Ohio.**

Technical reports. Part 1 & 5. Dayton, O. 1917. 2 v. illus. maps. charts (part. fold.) tables. 23 cm. Part 1.—The Miami valley and the 1913 flood. Part 5.—Storm rainfall of eastern United States.

**Modena. R. Università. Osservatorio geofisico.**

Osservazioni meteorologiche fatte nell' Osservatorio geofisico della R. Università di Modena nell' annata 1912-1914. Modena. 1914-1917. 3 v. fold. charts. tables. 32 cm. (Publicazioni dell' R. Osservatorio geofisico di Modena, No. 29-31.)

**Negri, Galdino.**

Tiempos y velocidades en los cálculos sismológicos. Publicado en la Revista del Centro estudiantes de ingeniería, número 189. Buenos Aires. 1918. 22 p., 1. incl. tables. 26 cm.

**Rolf, Bruno.**

Probabilité et pronostics des pluies d'été . . . Upsala. 1917. vii, 25, [2] p. charts. tables. 28½ cm.

**Osaka. Meteorological observatory.**

Annual report for the year 1917. Part 2. Seismological observations in Osaka, 1917. Osaka. 1918. cover-title. 24, [40] p. 3 fold. charts. tables. 26 cm.

**Pearson, S. K.**

The weather man's business. illus. chart. 24 cm. (Excerpted from Guaranty news, N. Y. vol. 7, no. 6. August, 1918. p. 193-196.)

**Stonyhurst college observatory.**

Results of meteorological, magnetical, and seismological observations, 1917 . . . Blackburn. 1918. xiv, 39 p. incl. tables. 18½ cm.

**Switzerland. Abteilung für Wasserwirtschaft.**

Graphische Darstellungen der schweizerischen hydrometrischen Beobachtungen . . . Tägliche Wassermengen an den Haupt-Pegelstationen . . . Tableaux graphiques des observations hydro-métriques suisses . . . Débits quotidiens aux stations limnimétriques principales . . . 1915. Bern. 1918. 44 p. fold. charts. tables. 38½ cm. At head of title: Schweizerischen Departement des Innern. Veröffentlichungen der Abteilung für Wasserwirtschaft, herausgegeben unter der Leitung von Dr. Léon W. Collet. [In French and German.]

Tabellarische Zusammenstellung der Hauptergebnisse der schweizerischen hydrometrischen Beobachtungen für das Jahr 1915 . . . Table de récapitulation des principaux résultats des observations hydrométriques suisses pour l'année 1915 . . . Bern. 1917. 79 p. incl. tables. 38½ cm. At head of title: Schweizerisches Departement des Innern. Veröffentlichungen der Abteilung für Wasserwirtschaft . . . [In French and German.]

**Uruguay. Instituto meteorológico nacional.**

Datos del observatorio central, Montevideo. Rio de la Plata-Puerto de Montevideo. Año 1917. [Montevideo. 1918.] cover-title. 56 p. 32 cm.

**Zomba. Observatory.**

Summary of year's observations, 1917. [Zomba. 1918.] 14 p. 34 cm.

## RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

**Franklin institute. Journal. Philadelphia. v. 186. August, 1918.**

Humphreys, W[illiam] J[ackson]. Physics of the air. p. 211-232. (Continuation.)

**Imperial earthquake investigation committee. Bulletin. Tokyo. v. 9. no. 1. 1918.**

Omori, F[usakichi]. Note on the form of Japanese castle walls. p. 30-32.

Omori, F[usakichi]. Vibration of reinforced concrete chimneys. p. 1-29.

**Meteorological society of Japan. Journal. Tokyo. 37th year. July, 1918.**

Sekiguchi, R. Some correlations between the solar activity and the far eastern climates. [Abstract.] p. 33-42.

Nakamura, Saemontaro. Note on the distribution of the intensity of an earthquake. p. 43-47.

**National academy of sciences. Proceedings. Baltimore. v. 4. July, 1918.**

St. John, Ancel. The crystal structure of ice. p. 193-197.

- Nature. London. v. 101. 1918.*
- Rayleigh [Lord]. Propagation of sound and light in an irregular atmosphere. p. 284. (June 13.)
- Cave, C. J. P. The drift of meteor trails. p. 284. (June 13.)
- Ward, Robert De Courcy. The tornadoes of the United States. (July 18.) p. 395-399. [Abridged from Q. J. Roy, Met'l. Soc.]
- Popular astronomy. Northfield. v. 26. June-July, 1918.*
- Barnard, E. E. The great aurora of 1918, March 7. p. 377-379.
- Royal institution of Great Britain. Proceedings. London. v. 21. April, 1918.*
- Shaw, Napier. Illusions of the upper air. p. 603-624.
- Science abstracts. London. v. 21. pt. 6. 1918.*
- Hellmann, G [ustav]. On severe winters. p. 251-252. [Abstract.]
- Hess, V. F., & Schmidt, W. Distribution of radio-active gases in the open air. p. 267. [Abstract.]
- Scientific American supplement. New York. v. 86. 1918. (August 24.)*
- The oceanographic work of the Royal Italian committee. p. 118-119. [Transl. from Larousse mensuel. Describes meteorological work of the committee.]
- Scientific American supplement—Continued.*
- Stuhlmann, Otto. The aurora. Is it possible to explain it by means of a corpuscular ray theory? p. 132-134. (August 31.)
- Symons's meteorological magazine. London. v. 53. June, 1918.*
- Bonacina, L. C. W. Inverse weather conditions. p. 51-52. Mountain mists and water supply. p. 55.
- Terrestrial magnetism. Baltimore. v. 23. June, 1918.*
- Mauchly, S. J. A study of pressure and temperature effects in earth-current measurements. p. 73-91.
- Peters, W. J. Results of dip-of-horizon measurements made on the Galilee and Carnegie, 1907-1917. p. 47-60.
- Western society of engineers. Journal. Chicago. v. 23. March, 1918.*
- Richards, Harry, Domoghue, George T., & Galligan, W. J. Snow removal. p. 175-191.
- Académie des sciences. Comptes rendus. Paris. Tome 167. 22 juillet 1918.*
- Garrigou-Lagrange, Paul. Les mouvements généraux de l'atmosphère. p. 170-172.